

Route 460 Corridor Improvements PPTA System Operations

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Each proposal represents an opportunity to enhance operations in corridor

However, more detail is needed to assess operational aspects such as

- Safety / Incident Management
- Tolling and Enforcement
- Maintenance Performance Standards

Proposed benefits in the corridor include:

- Removal of existing roadway deficiencies
- Improved safety
- Accommodation for increasing freight shipments
- Reduction in travel delay
- Provision of adequate hurricane monitoring capability
- Improved strategic military connectivity

Scope of the Proposals

New facility would be four lanes divided, limited access highway with 9 interchanges.

The proposals maintain the ability to accommodate hurricane evacuation plans if needed.

The proposals will toll 24/7

- Significant departure from operations today
- Electronic and manual tolling proposed for the corridor.

More information is needed to assess tolling impacts

- Within the corridor
- Within Regional transportation system

Requires operations level traffic study/simulation

Key areas for Operations review:

- Incident Management & Enforcement
- Safety
- Tolling / Technology
- Maintenance

Incident Management & Enforcement

Each proposal identifies I.M. and enforcement as elements, but lack detail on operations

- Staging of equipment
- Coordination with VDOT, localities, first responders
- Service level or response “goal”

Ultimate operational authority of facility?

- Emergency – Lifting of Tolls

Incident Management & Enforcement

- **Virginia Partners** expects to contract with VSP and/or local authorities for surveillance, assistance and enforcement.
- **Cintra** and **Itinere** will rely on the VSP to ensure law enforcement during the concession term.
- **Itinere** proposes an asset management program typically including emergency response, safety training and traffic safety.

Incident Management & Enforcement

Length of corridor will require that coordination with VDOT Hampton Roads and Richmond traffic managers as well as many emergency responders.

Safety

- Commercial rest stops for trucks should be considered as safety issue
- The design of the median width will need special consideration for safety to protect opposing vehicles

Technology – Tolls

- Each of the proposals identify proven technology and experience for collection of tolls
- Over contract life – technology will change
- Variable pricing, congestion management and open tolling are considered for the corridors.
- Proposals mentioned tolling of other facilities in addition to Rte. 460 for revenue purposes to support the project.

Technology – ITS Equipment

- Proposals provide limited detail on existing ITS equipment and planned equipment
- Control of ITS Equipment
- Coordination, Integration, and interface of operations with the STC's in Hampton Roads and Richmond and State Police CADD
- 3rd party agreements for data
 - Data sharing between facility operator and region
 - No restrictions on use of real-time traffic data

Maintenance

- Virginia Corridor partners propose a whole-of-life approach for maintenance.
- Cintra and Itinere propose to replace the surface asphalt and treat the shoulders in year 12 of the life-cycle.

VDOT performance based maintenance contract for limited access facilities: pavement, bridges, signs, roadside features

Maintenance

- Level of service will be addressed at the comprehensive agreement phase.
- Does not specify the suggested pavement structure for the travel lanes.
- Virginia Corridor Partners and Cintra propose 50 year concession period.
- Itinere proposes a 60 year concession period.

Maintenance

Asset Data, activity, quantity and cost for maintenance needs to be reported to the Department on a regular basis for the further development of deterioration rates /business rules of the Asset Maintenance System.

Each proposal represents an opportunity to enhance operations in corridor

Key operational aspects

- Incident Management
- Enforcement
- Safety
- Tolling
- Technology and Data Collection
- Maintenance Performance Standards

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